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NOTICE OF ALLOWANCE AND FEE(S) DUE

24319 7590 LSI CORPORATION 1621 BARBER LANE MS: D-106 MILPITAS CA 95035 6306/2008 EXAMINER
SEEK VUTHE

ART UNIT PAPER NUMBER

DATE MAILED: 03/06/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNIY DOCKET NO.
 CONTRIMATION NO.

 10769,510
 01/30/2004
 Michael Eneboe
 01-490/IC
 8371

TITLE OF INVENTION: SYSTEM AND METHOD FOR OPTIMIZING AN INTEGRATED CIRCUIT DESIGN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/06/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THE APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence including ed below or directed out tions.	ng the F nerwise	atent, advance or in Block 1, by (a	ders and notification specifying a new of	of n	naintenance fees v pondence address	vill be and/or	mailed to the current r (b) indicating a sepa	corre trate	spondence address as "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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APPLICATION NO.	FILING DATE			FIRST NAMED INVEN		TOR ATTORN		RNEY DOCKET NO.	co	CONFIRMATION NO.	
10/769,510	01/30/2004			Michael Eneboe			•	01-490/IC		8371	
TITLE OF INVENTION											
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nonprovisional	NO		\$1440	\$300		\$0		\$1740		06/06/2008	
EXAM	IINER		ART UNIT	CLASS-SUBCLASS	S						
SIEK, V			2825	716-016000							
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form FTOSBI 22) attached. "Fee Address' indication (or "Fee Address" Indication form FTOSBI 47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			Correspondence	2 For printing on the pasent front page, list (1) the anness of up to 3 registered patent attorneys or agents OR, alternatively, (2) the names of a single firm (having as a member a registered autoracy or agent) and the names of up to 2 registered patent autoracys or agents. If no name is stied, no name will be printed.							
(A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified be pletion o	low, no assignee of this form is NO	data will appear on t T a substitute for filin (B) RESIDENCE: (6	the page and CITY	ntent. If an assign assignment. and STATE OR C	OUNT				
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 Change in Entity Sta Applicant claim 	tus (from status indicate is SMALL ENTITY stati			☐ b. Applicant is no	o lons	er claiming SMA	LLEN	TITY status. See 37 Cl	FR 1.:	27(α)(2).	
NOTE: The Issue Fee an interest as shown by the											
Authorized Signature						Date					
Typed or printed name				Registration No.							
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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/769,510		01/30/2004	Michael Eneboe	01-490/1C	8371		
24319	7590	03/06/2008		EXAM	UNER		
LSI CORPORATION				SIEK, VUTHE			
1621 BARBE	R LANE			ART UNIT	PAPER NUMBER		
MS: D-106 MILPITAS, CA 95035				2825 DATE MAII ED: 03/06/200	8		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 181 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 181 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/769,510	ENEBOE ET AL.	
Examiner	Art Unit	
Jutha Siak	2825	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to communication filed 12/3/07.
- The allowed claim(s) is/are 1-5, 7-12 and 21 (Renumbering per 37 CFR 1.126).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Vuthe Siek/

Primary Examiner, Art Unit 2825

Application/Control Number: 10/769,510 Page 2

Art Unit: 2825

DETAILED ACTION

 This office action is in response to application 10/769,510 and amendment filed on 12/3/2007. Claims 1-5, 7-12 and 21 remain pending in the application, where claims 6 and 13-20 are canceled

Terminal Disclaimer

The terminal disclaimer filed on 2/13/2006 disclaiming the terminal portion of any
patent granted on this application which would extend beyond the expiration date of the
patent [6,751,783] has been reviewed and is accepted. The terminal disclaimer has
been recorded.

EXAMINER'S STATEMENT AS TO THE REASONS FOR ALLOWANCE

- 3. Claims 1-5, 7-12 and 21 are allowed over the prior art of record.
- 4. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or fairly suggest optimizing a physical configuration of the plurality of interconnects and components of the integrated circuit based on interconnect channel capacities, scalability of the interconnect channel capacities and isochronous interconnect configuration during designing an integrated circuit in combination of the claim limitations recited in claims 1 and 10. In addition, the optimization is based heuristic knowledge, through monitoring and experience in the utilization of chips, knowledge being derived pertaining to how the components interact, therefore the interconnects have the ability to scale, ability to act as a switch base, and as a packet phase to be optimized so that optimum performance is achieved.

Application/Control Number: 10/769,510

Art Unit: 2825

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vuthe Siek whose telephone number is (571) 272-1906. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Vuthe Siek/ Primary Examiner, Art Unit 2825